

Name:

Exam Style Questions

Changing the Subject



Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

Guidance

1. Read each question carefully before you begin answering it.
2. Don't spend too long on one question.
3. Attempt every question.
4. Check your answers seem right.
5. Always show your workings

Revision for this topic

www.corbettmaths.com/contents

Video 7



1. Make w the subject of the formula

$$y = 3w - a$$

$$w = \dots\dots\dots$$

(2)

2. Make w the subject of the formula

$$s = \frac{w}{a}$$

$$w = \dots\dots\dots$$

(2)

3.

$$v = u + 10t$$

(a) Work out the value of v when $u = 4$ and $t = 3$

$$v = \dots\dots\dots$$

(2)

(b) Make u the subject of the formula

$$v = u + 10t$$

$$u = \dots\dots\dots$$

(2)

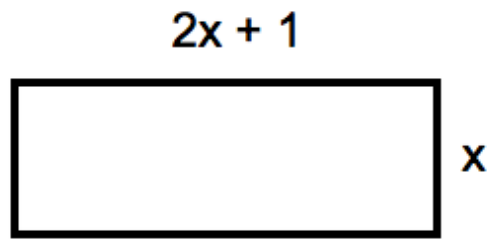
(c) Make t the subject of the formula

$$v = u + 10t$$

$$t = \dots\dots\dots$$

(2)

4. Here is a rectangle.



P is the perimeter of the rectangle.

(a) Show that $P = 6x + 2$

(2)

(b) Express x in terms of P

$x = \dots\dots\dots$
(2)

5. Make m the subject of the formula

$$s = \frac{hm}{4}$$

$m = \dots\dots\dots$
(2)

6. Express v in terms of t

$$t = \frac{v}{4} + 1$$

$v = \dots\dots\dots$
(2)

7. Make d the subject of the formula $c = 4d + 5$

$$d = \dots\dots\dots$$

(2)

8. Make g the subject of the formula:

$$a = \sqrt{g}$$

$$g = \dots\dots\dots$$

(2)

9. Make y the subject of the formula:

$$k = y^2 + a$$

$$y = \dots\dots\dots$$

(2)

10. $C = 4x + 5y$

(a) Find the value of C when $x = 9$ and $y = -2$

$$C = \dots\dots\dots$$

(2)

(b) Make x the subject of the formula

$$x = \dots\dots\dots$$

(2)

(c) Find the value of x when $C = 51$ and $y = 3$

$$x = \dots\dots\dots$$

(2)

11. Make b the subject of the formula $a^2 + b^2 = c^2$

$$b = \dots\dots\dots$$

(2)

12. Rearrange $y = 2x + 1$ to make x the subject

$$x = \dots\dots\dots$$

(2)